

## ASSIGNMENT ON SDLC MODEL

Q.1 Discuss the prototyping model. What is the effect of designing a prototype on the overall cost of the project?

Ans: >>The Prototyping Model is one of the most popularly used Software Development Life Cycle Models (SDLC models).

>> This model is used when the customers do not know the exact project requirements beforehand.

>> In this model, a prototype of the end product is first developed tested and refined as per customer feedback repeatedly till a final acceptable prototype is achieved which forms the basis for developing the final product.

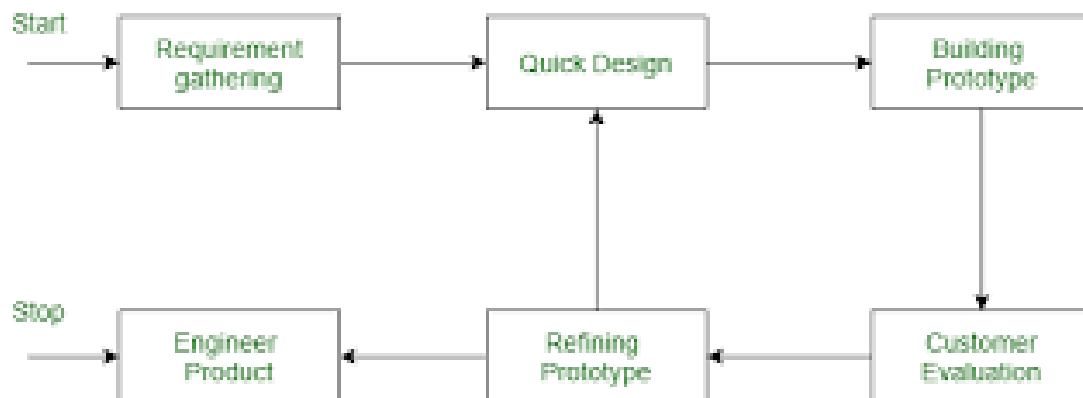


Figure - Prototype Model

## Effect of designing a prototype on the overall cost of the project

\*Prototyping may have some initial costs of developing, but it reduces the overall budget by helping your product to be free of the errors or glitches that could have occurred if the idea was made from scratch without any prior user testing.

\* Furthermore, prototyping also helps to understand the intrinsic flaws, shortcomings and drawbacks that can be improved during the product development process.

Q.2. Compare iterative enhancement model and evolutionary process model.

Ans: Evolutionary process model is different from iterative enhancement model in the sense that this doesn't require a useable product at the end of each cycle. In evolutionary development requirements are implemented by category rather than by priority.

The Iterative Enhancement Model is an approach to building software in which the overall lifecycle is composed of several iterations in sequence. The Evolutionary Enhancement Model is designed to be allowed to evolve in response to the customers' feedback.

Q.3. As we move outward along with process flow path of the spiral model, what we can say about software that is being developed or maintained.

Ans: As work moves outward on the spiral the product moves toward a more complete state and the level of abstraction at which work is performed is reduced (implementation specific work accelerates as we move further from the origin).

Q.4. Explain the Scrum Agile methodology.

Ans: Agile scrum methodology is the combination of the agile philosophy and the scrum framework. Agile means “incremental, allowing teams to develop projects in small increments. Scrum is one of the many types of agile methodology, known for breaking projects down into sizable chunks called “sprints.” Agile scrum methodology is good for businesses that need to finish specific projects quickly.

Q.5. Explain the utility of Kaban CFD reports.

Ans: Cumulative Flow Diagram is an analytical tool, fundamental to kaban method. It allows teams to visualize their effort and project progress.

The CFD only requires 3 basic things from the process - a Backlog, an In Progress column and a Done section - using this type of division allows you to read valid and usable information from the diagram. Therefore, any team, that utilizes this kind of workflow division, can benefit from Cumulative Flow.

CFDs help teams monitor the count of work items as they progressively move through various workflow states. These diagrams can show the flow of epics, features, user stories, issues, product backlog items, or requirements, depending on the process selected for your project: